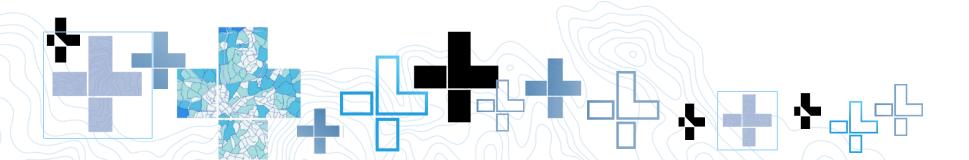


Agenda:



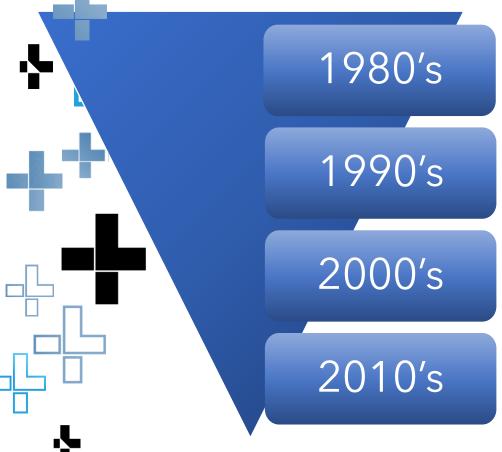
- A background in Redistricting.
- Esri Redistricting Solution
- Examples
- 2020 Census PL94-171 Data workflow.
- Open questions and next steps.





Redistricting Background

Some History:



Highly Constrained

Tools available but cumbersome

Usability and some public involvement

Almost consumer-level



Esri Redistricting is a web-based solution that enables governments, advocates, and citizens to complete and securely share compliant redistricting plans.

Esri Redistricting provides comprehensive tools for plan creation, management, visualization, editing and collaboration.

Built-in tools check for common compliance blunders.

Online functionality allows Openness, Transparency, and Citizen Engagement.



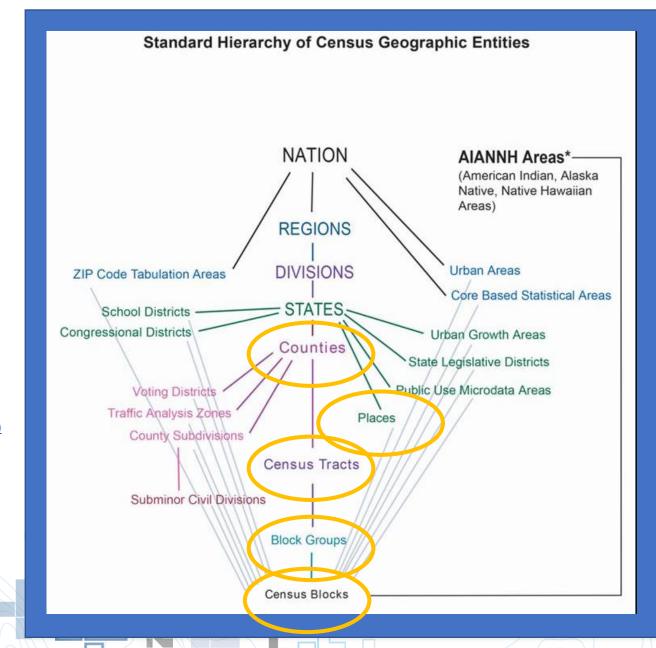
Census Data—The P.L. Story

Public Law (P.L.) 94-171

...enacted by Congress in December 1975, requires the Census Bureau to provide states the opportunity to identify the small area geography for which they need data in order to conduct legislative redistricting. The law also requires the U.S. Census Bureau to deliver this data no later than one year from Census day.

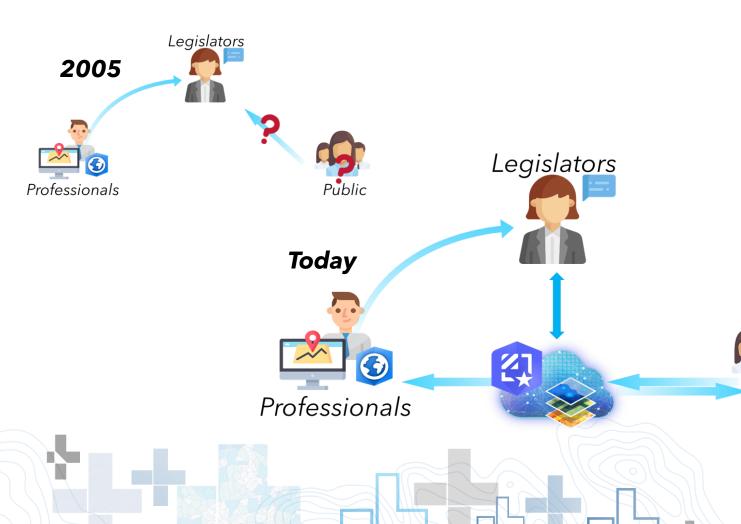
P.L. 94-171 requires the U.S. Census Bureau to furnish "basic tabulations of population" to each state, including for those small areas the states have identified.

<u>Understanding Geographic Relationships: Counties, Places, Tracts and More (census.gov)</u>



A Vision for Redistricting

Esri Redistricting Story

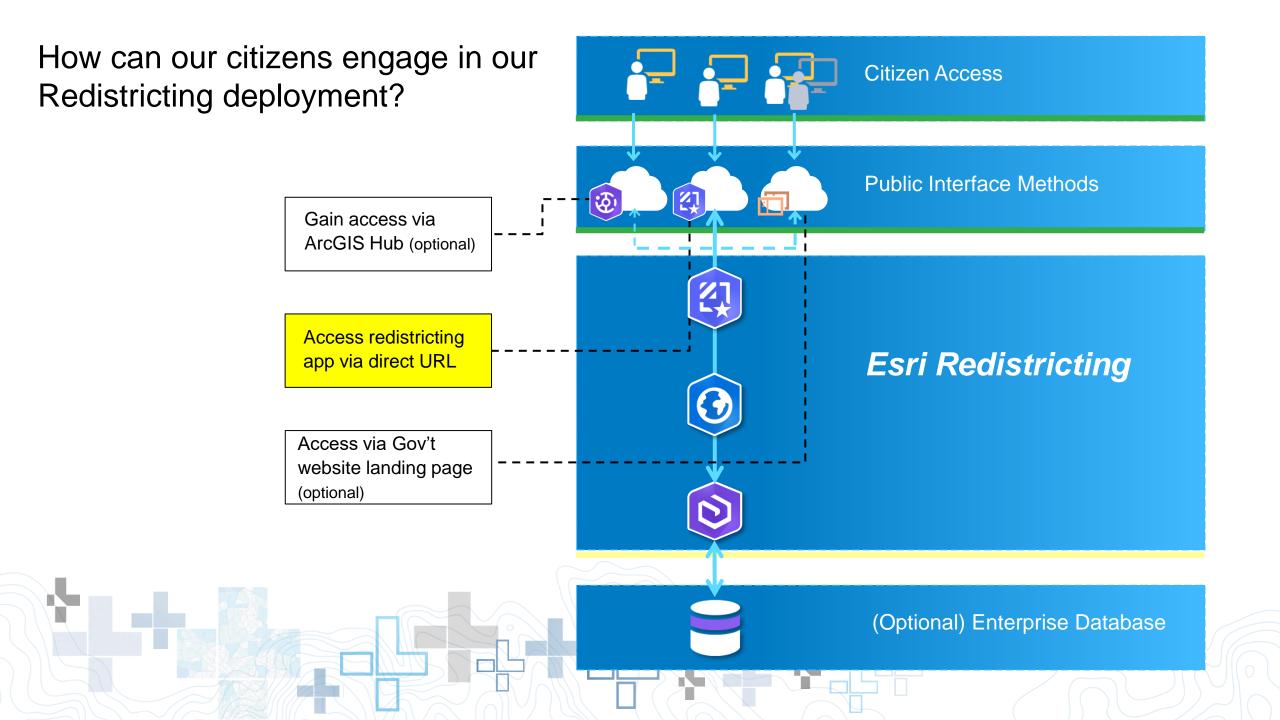


A browser approach would increase collaboration within the legislature and between citizens

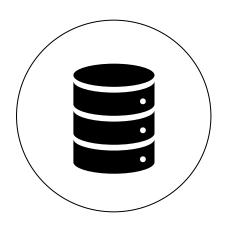
- Provided via web browser
- Facilitates collaboration, sharing, and community building
- Easy to use interface reduces costs associated with training
- Minimal GIS experience required
- Centralized IT

Public

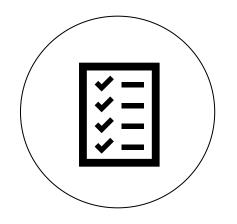
 Cost effective way to provide access to citizens







Data Sources



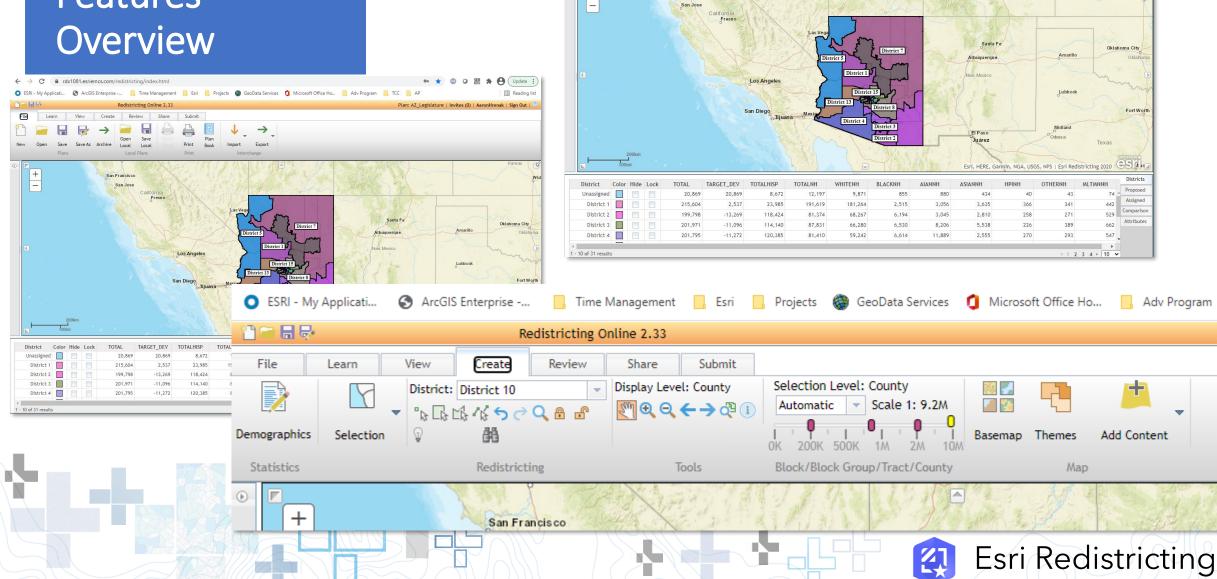
Plan Management



Collaboration



Features



← → C • rdx1081.esriemcs.com/redistricting/index.html

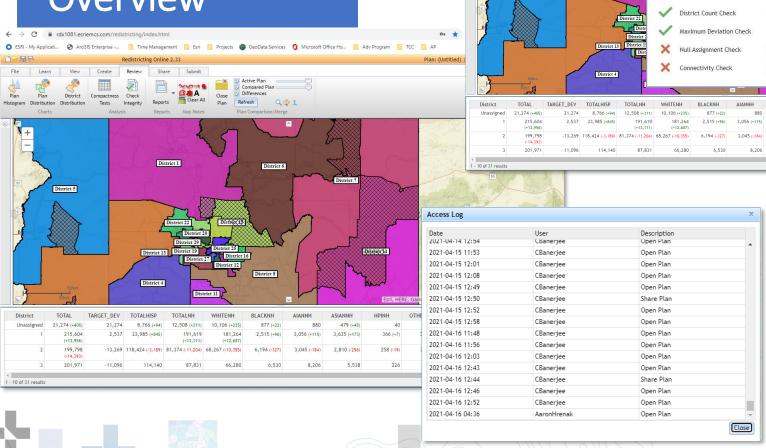
Create Review Share Submit

San Francisco

Display Level: County

💿 ESRI - My Applicati... 🚱 ArcGIS Enterprise -.... 🔋 Time Management 📙 Esri 🥦 Projects 🚳 GeoData Services 🐧 Microsoft Office Ho... 📋 Adv Program 📑 TCC 🧧 AP





← → C 🗎 rdx1081.esriemcs.com/redistricting/index.html

District 5

File Learn View Create Review Share Submit

Tests Integrity

💿 ESRI - My Applicati... 🔞 ArcGIS Enterprise -... 📳 Time Management 📗 Esri 📗 Projects 🚳 GeoData Services 🐧 Microsoft Office Ho... 📋 Adv Program 🛄 TCC 📋 AP

Integrity Tests

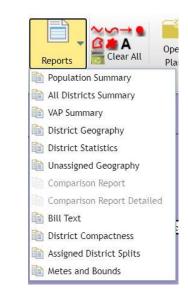
Reports Man Notes

District 1

Refresh Q 🗘 🏃

Dual Assignment Check

Population Summary Check





Assigned

Comparison

442 (+21)

1 2 3 4 > 10 ~

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X

Details...

Details...

Details...

Details...

Zoom To...

Details...

479 (+45)

3,635 (+173)

2,810 (-256)

258 (-19)

271 (-13)



07 ★ ◎ ② 题 ★ 🕙 (Update :

Esri Redistricting

The P.L. table as a Data Model.

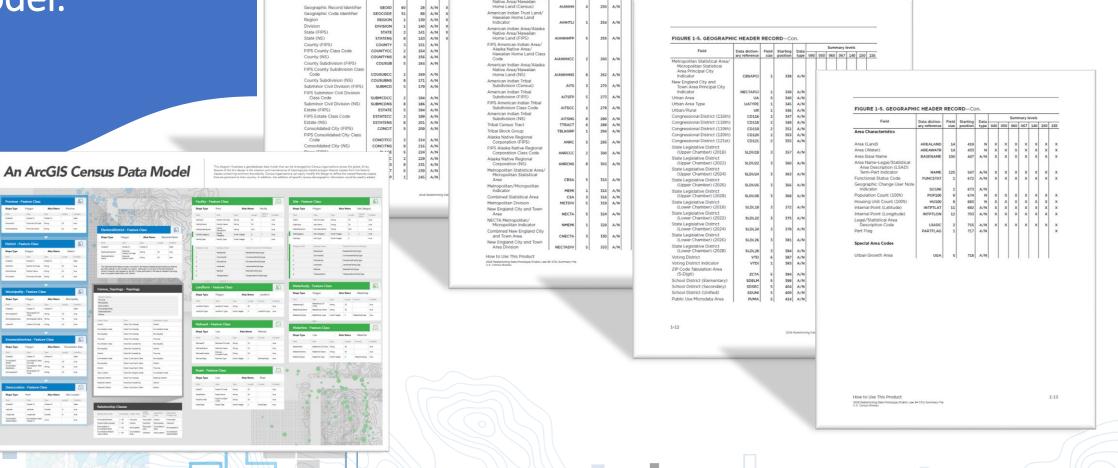


FIGURE 1-5. GEOGRAPHIC HEADER RECORD-Cor

FIGURE 1-5. GEOGRAPHIC HEADER RECORD

STUSAB

GEOVAR

CHARITER

1 A/N 7 A 9 A/N 12 A/N 14 A/N 16 A/N

Record Codes

State/US-Abbreviation (US

Geographic Variant

Characteristic Iteration

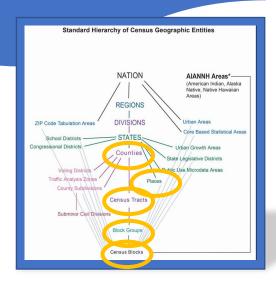
Logical Record Number

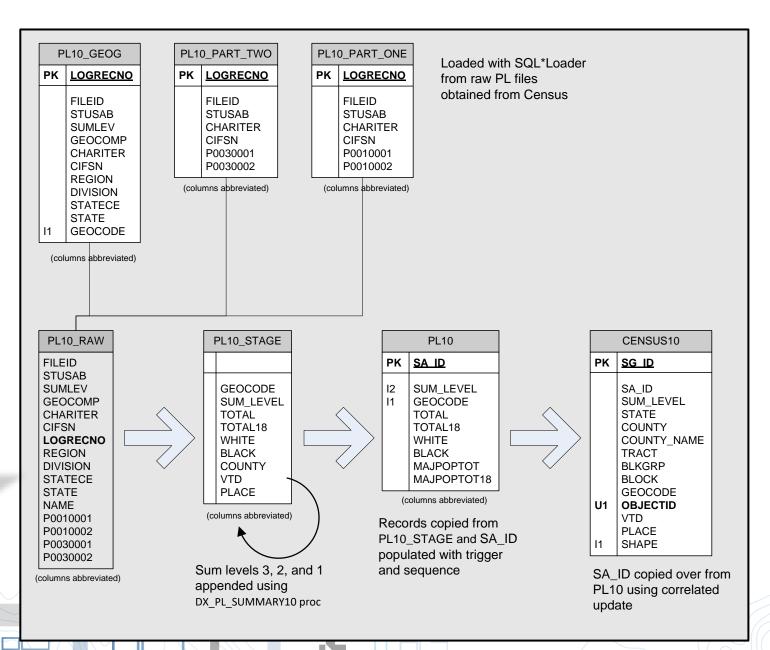
Characteristic Iteration File

How the P.L. table is populated.

Steps for processing 2020 Census P.L. data Download 2020 Census PL94-171 data from Census Bureau PL data is loaded into staging database, the separate parts are joined into a singular table Summarization of all relevant attributes is performed per hierarchy (block, block group, tract, county, place, voting district) Summary data is joined to corresponding geography Data is exported to file geodatabase for delivery to Product Team Modified Edges feature class added to each state file geodatabase ArcGIS Pro document created for each state Map Service published for each state App configuration file updated to include new service Software updated to latest build Regression testing performed Implementation coordination with customer

2020 Census P.L. data workflow





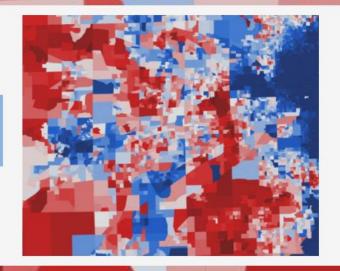
State of Florida Hub Mock-up

Guide to State Legislative Redistricting in Montana (arcgis.com)

Gesti Florida Senate and House of Representatives (For Demo Purposes Only)

Redistricting Florida

This web page can be used as a collaboration tool in two ways. It can be used for the public to make comments on Florida's submitted plans or as a tool to create and share your own plans.

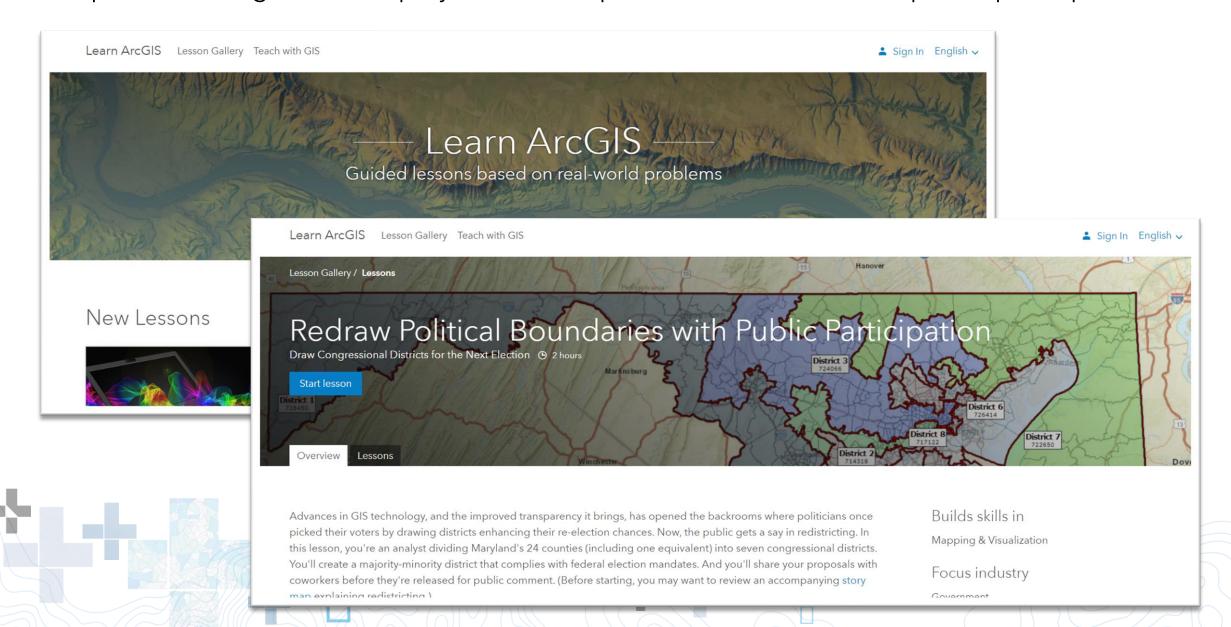


The U.S. Constitution requires that each district have about the same population: each federal district within a state must have about the same number of people, each state district within a state must have about the same number of people, and each local district within its jurisdiction must have about the same number of people.

Step 1: Who is your elected official?

Use the application to find your current elected officials in your voting district.

https://learn.arcgis.com/en/projects/redraw-political-boundaries-with-public-participation



Key Takeaways



Open and Transparent should provide;

- > a web-based environment for creating and sharing plans,
- > the ability to collaborate on plans and engage your communities,
- > clarity into the redistricting process



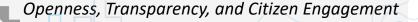
What You Need to Know About Redistricting

Government
October 12, 2020



Geography is Destiny

I recently listened to a series of podcasts about the upcoming redistricting process. The host of the podcasts reviewed a collection of stories examining the many legal battles concerning redistricting over the past several years. Eventually, the host used a phrase that grabbed my attention. While describing the winners and losers in redistricting, he said, "Geography is destiny." Isn't that fitting? Credited to Napoleon and his geopolitics theories,





Introductions





Richard Leadbeater, Global Manager State Government Industry Solutions

Email: rleadbeater@esri.com

Office: 909-369-4448
Twitter: @PolicyMapper

"My goal is to move the application of GIS and geographic analysis further, from its present use by technology professionals, into the conversations that define government policy and its operations. The data governments generate must be thought of as a resource, a valued resource, that wants exploitation. I believe that data in the 21st century is what timber, iron, and coal were to the 19th century. More importantly, this resource needs proper crafting. Today, we talk about producing and mining data, but the real value is in the creation of finished goods."

Joined Esri in 1997. Mr. Leadbeater's focus is on developing tools and solutions addressing government administrative functions with attention towards the use of GIS in support of policy development, elections, redistricting, and government administrative processes.

Before Esri, Mr. Leadbeater worked as the Geographic Information Project Manager developing and implementing GIS, CADD, and Document Imaging technologies at the Washington Suburban Sanitary Commission. The WSSC is one of the largest public Water and Wastewater Utilities in the United States.

Mr. Leadbeater received a BS in Social Science and Geographic Arts from the University of Maryland in 1983.

